WIRESPEED
DUAL CONNECT MODEM (MODEL 2110)
USER GUIDE

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1. PRODUCT DESCRIPTION

Westell's WireSpeed™ Dual Connect Modem adds reliable, high-speed, Internet access to your existing home or office phone line. Your ADSL connection is "always-on" ending the hassles of dial-up modems and busy signals. Installation is easy ... no tools ... no headaches. Simply plug the modem into the 10/100 Base-T or USB port of your PC, apply power, perform the simple software configuration steps, and connect your ADSL phone line to the modem.

This modem is capable of data rates hundreds of times faster than a traditional analog modem. But unlike analog modems, Westell's WireSpeed Dual Connect Modem allows you to use the same phone line for simultaneous voice/fax communications and high-speed Internet access, eliminating the need for dedicated phone lines for voice and data needs. The Plug and Play feature means that no user configuration is required.

2. SAFETY INSTRUCTIONS

Never install any telephone wiring during a lightning storm.

Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.

Never touch non-insulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.

Use caution when installing or modifying telephone lines.

WARNING

Risk of electric shock. Voltages up to 140 Vdc (with reference to ground) may be present on telecommunications circuits.

3. REGULATORY INFORMATION

3.1 FCC Compliance Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to a different circuit from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

PART 68 – FCC COMPLIANCE REGISTRATION

This equipment (ADSL modem) also complies with Part 68 of the FCC rules. A label on the bottom of this equipment contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

This equipment is designated to connect to the telephone network or premises wiring using a compatible modular jack that is Part 68 compliant. An FCC compliant telephone cord and modular plug is provided with the equipment. See the installation instructions for details.

If this terminal equipment (ADSL modem) causes harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved. The telephone company will notify you in advance if temporary discontinuance of service is required. If advance notification is not practical, the telephone company will notify the customer as soon as possible. You will be advised of your right to file a complaint with the FCC, if you believe such action is necessary.

The telephone company may make changes to their facilities, equipment, operations, or procedures that could affect the operation of this equipment. If this happens, the telephone company will provide advance notice in order for you to make the modifications necessary to maintain uninterrupted service.

If you experience trouble with this equipment (Dual Connect modem), do not try to repair the equipment yourself. The equipment cannot be repaired in the field and must be returned to the manufacturer. Contact Westell Technical Support at telephone no. (630) 375-4500 for instructions on product return.

This equipment cannot be used on public coin phone service provided by the telephone company. Connection of this equipment to party line service is subject to state tariffs.

3.2 Canada Certification Notice

The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operations and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local Telecommunication Company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative, and designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure, for their own protection, that the electrical ground connections of the power utility, telephone lines, and internal, metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specification were met. It does not imply that Industry Canada approved the equipment.

The Ringer Equivalence Number (REN) assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.

CAUTION

Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate.

4. SYSTEM REQUIREMENTS

4.1 Minimum System Requirements for USB Installation

The following system specifications are required for optimum performance of the WireSpeed Dual Connect modem via USB installation:

- Pentium® or equivalent and above class machines
- Microsoft® Windows® 98, ME, 2000, or XP installed
- Computer Operating System CD-ROM on hand
- Internet Explorer 4.x or Netscape Navigator 4.x or higher
- 32 MB RAM
- 10 MB of free hard drive space
- USB Version 1.0 or 1.1 compliant bus

4.2 Minimum System Requirements for 10/100 Base-T/Ethernet Installation

The following system specifications are required for optimum performance of the WireSpeed Dual Connect modem via 10/100 Base-T installation:

- Pentium® or equivalent and above class machines
- Microsoft® Windows® 95, 98, NT 4.0, 2000, or XP installed
- Computer Operating System CD-ROM on hand
- 32 MB RAM
- Ethernet 10/100 Base-T interface
- 10 MB of free hard drive space
- TCP/IP Protocol stack installed

5. INSTALLATION INFORMATION

5.1 Installation Requirements

To install the Westell Dual Connect modem, you will need the following:

1. An Ethernet adapter installed in your PC or a USB adapter installed in your PC.
2. A DSL-ready line (provided by your Service Provider).

5.2 Package Contents

- WireSpeed Dual Connect Modem
- Power Supply
- RJ-45 Ethernet cable (straight-through)
- USB cable
- RJ-11 DSL Phone cable
- Westell CD-ROM containing USB software drivers and User Guide in .PDF format
- Quick Start Guide

5.3 Microfilters

ADSL signals must be blocked from reaching each telephone, answering machine, fax machine, computer modem or any similar conventional device. Failure to do so may degrade telephone voice quality and ADSL performance. Install a microfilter if you desire to use the DSL-equipped line jack for telephone, answering machine, fax machine or other telephone device connections. Microfilter installation requires no tools or telephone rewiring. Just unplug the telephone device from the baseboard or wall mount and snap in a microfilter, next snap in the telephone device. Contact Westell to obtain a microfilter kit, which contains multiple microfilters for your installation.

5.4 LED Indicators

The LED indicators are used to verify the unit's operation and status. LED states are described in Table 1.

Table 1. LED States and Descriptions

LED	State	Description
POWER	**Solid Green**	Power ON
	No Light	No Power
READY	**Slow Flashing Green**	Power ON and passed power-up diagnostics (1 flash/sec)
	Moderate Flashing Green	Power ON and attempting synchronization (2 flashes/sec)
	Steady Green	Power ON and synchronized with ADSL line card
	Steady Red (less than 20 sec.)	Hardware power-up in process
	Blinking Red	Unit failed power-up diagnostic
	Alternating Red/Green	Modem diagnostic failed
	No Light	No Power
ETHERNET	**Solid Green**	Ethernet link established
	Flashing Green	Transmit or Receive Activity
	No Light	No link established
USB	**Solid Green**	USB link established
	Flashing Green	Transmit or Receive Activity
	No Light	No USB link established

5.5 Cable Connectors and Pinouts

The following items are located on the rear panel of the modem. See Figure 1. Tables 2 through 5 list the connector types and pinout designations.

- DSL (LINE) Connector (RJ-11)
- USB Connector
- Power Connector (Barrel)
- Ethernet Connector (RJ-45)

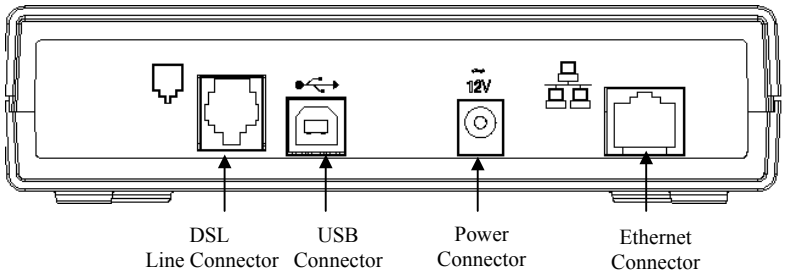

Figure 1. Dual Connect Modem Rear Panel

Table 2. Connectors

SYMBOL	NAME	TYPE	FUNCTION
	DSL	6-pin RJ-11 dual modular jack	Connects to an ADSL-equipped telephone jack or DSL connection of a POTS splitter.
	USB	4-pin USB Series B connector	Connects the USB device to the PC.
~ 12V	Power	Barrel connector	Power source.
	Ethernet	8-pin (RJ-45) modular jack	Connects the Ethernet device to the PC.

Table 3. DSL Pinouts

Pinout	Description
1, 2, 5, 6	Not Used
3	DSL Tip
4	DSL Ring

Table 4. USB Series B Connector Pinouts

Pin	Name	Description	Cable Color
1	VBUS/Vcc	5 Vdc	Red
2	D –	Data –	White
3	D +	Data +	Green
4	GND	Ground	Black

Table 5. Ethernet Pinouts

Pinout	Description
1	Rx+
2	Rx-
3	Tx+
4,5,7,8	Not Used
6	Tx-

5.6 Modem Installations

This section explains the procedures for installing Westell's WireSpeed Dual Connect modem via USB connections or via 10/100 Base-T/Ethernet connections.

Note: This product supports simultaneous use of Ethernet and USB ports. They may be connected simultaneously if you are using two distinct IP addresses. Please wait until you have received notification from your Service Provider that your DSL line has been activated before installing your modem.

Note: If you are using a Westell ADSL modem in conjunction with a router, refer to the router manufacturer's instructions for proper installation and configuration.

5.6.1 Modem Installation via USB

Refer to Figure 2.

1. Place the modem on a flat surface that is near the PC.
2. Connect the power supply cord to the power connector marked ~ 12V on the rear panel of the modem. Plug the other end of the power supply cord into an AC wall socket.
3. Connect the DSL phone cable from the connector marked on the rear panel of the modem marked to the DSL-equipped telephone line jack on the wall. **IMPORTANT:** Do not use a DSL filter on this connection**.** You must use the phone cord that was provided with the modem kit.
4. Connect the USB cable from the USB connector marked on the rear panel of the modem to the USB port on the PC.

Note: When changing the modem between multiple computers with different operating systems or when upgrading the computer attached to the modem, the power must be cycled on the modem.

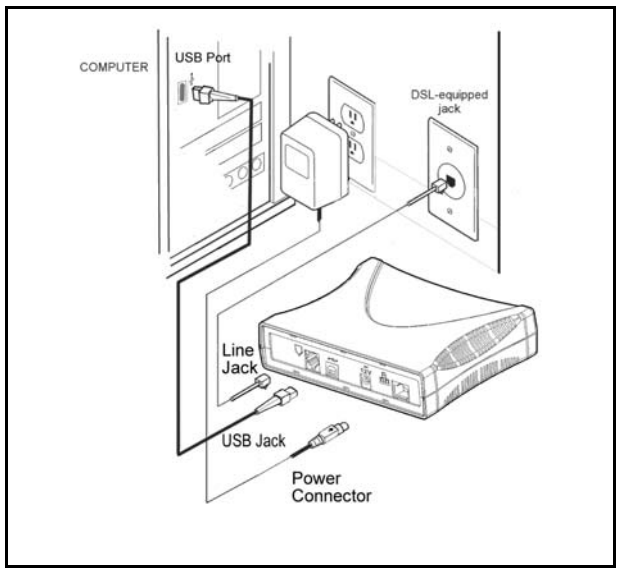

Figure 2. Modem Connection via USB

5.6.2 Modem Installation via 10/100 Base-T/Ethernet

Note: Before you connect the modem via 10/100 Base-T, you must have an available Ethernet card installed in your computer. If your Ethernet card does not auto-negotiate, you must set it to half duplex. Refer to the Ethernet card manufacturer's instructions for installing and configuring your Ethernet card.

Refer to Figure 3.

1. Verify that you have an available Ethernet card. **Note**: See the above caution box.
2. Connect the power supply cord to the power connector marked ~ **12V** on the rear panel of the modem. Plug the other end of the power supply cord into an AC wall socket.
3. Connect the DSL phone cable from the jack on the rear panel of the modem marked ▀ to the DSL-equipped telephone line jack on the wall. **IMPORTANT:** Do not use a DSL filter on this connection. You must use the phone cord that was provided with the modem kit.
4. Connect the Ethernet cable from the Ethernet jack marked 🖧 on the rear panel of the modem to the Ethernet port on your computer.

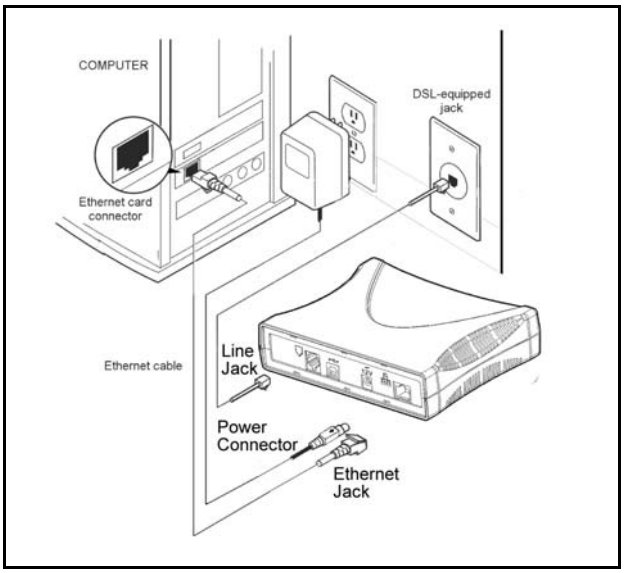

Figure 3. Modem Connection via 10/100 -Base-T/Ethernet

6. INSTALLING USB DRIVERS

The Microsoft® Plug & Play auto-detect feature recognizes when new hardware has been installed. After you connect the Westell WireSpeed Dual Connect Modem to the PC, it will be detected automatically.

6.1 Westell CD-ROM Installation:

1. Place the Westell CD-ROM that you received in the modem kit into the appropriate drive.
2. Verify the connection to the computer by observing the state of the Link LED. The LED will not light until all drivers have been installed. (**Note**: This applies to all operating systems.) The Link LED should report solid green indicating a USB connection has been established. (**Note**: LED states are explained in Table 1.)

6.2 Installing the USB Drivers for Windows 98

IMPORTANT: Confirm that the Westell USB Driver CD-ROM is inserted in the appropriate drive before continuing this installation.

1. After you have connected the Westell Dual Connect Modem to your PC, the **Found New Hardware** window appears (Figure 4). In a few moments, the Add **New Hardware Wizard** window will open (Figure 5). Click **Next**.

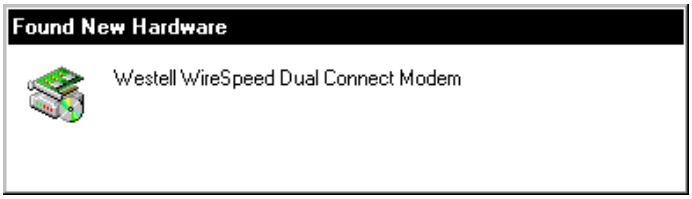

Figure 4. Windows 98

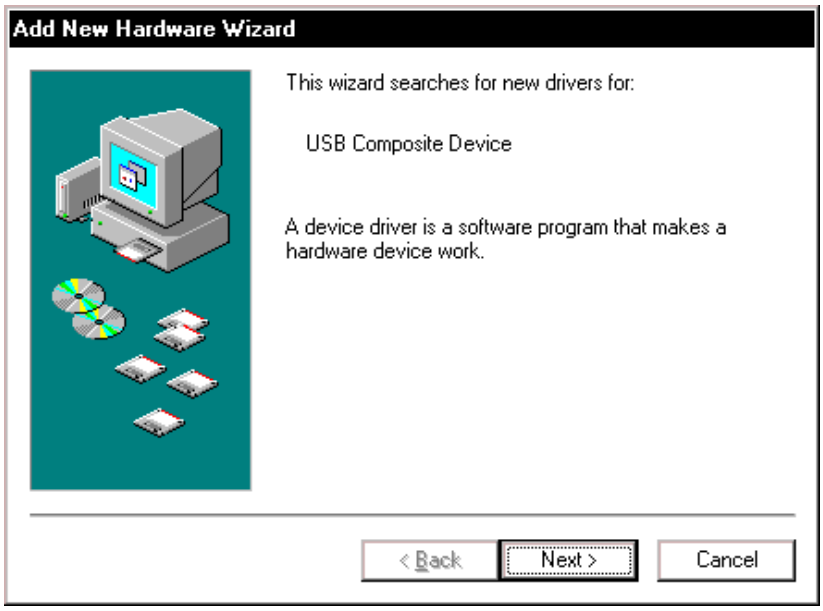
Add New Hardware Wizard
This wizard searches for new drivers for:
USB Composite Device
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

Figure 5. Add New Hardware

2. **Windows 98:** Click the option button for **Search for the best driver for your device. (Recommended)**. See Figure 6. Click **Next**.

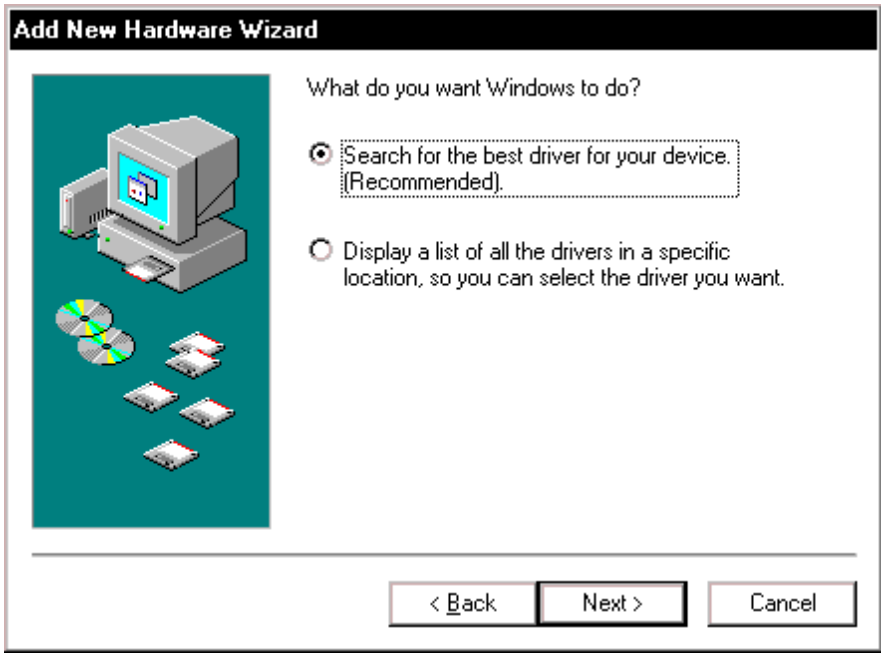
Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

Figure 6. Windows 98

3. **Windows 98:** Select **CD-ROM drive** option. See Figure 7. Click **Next**. Windows will search for the driver.

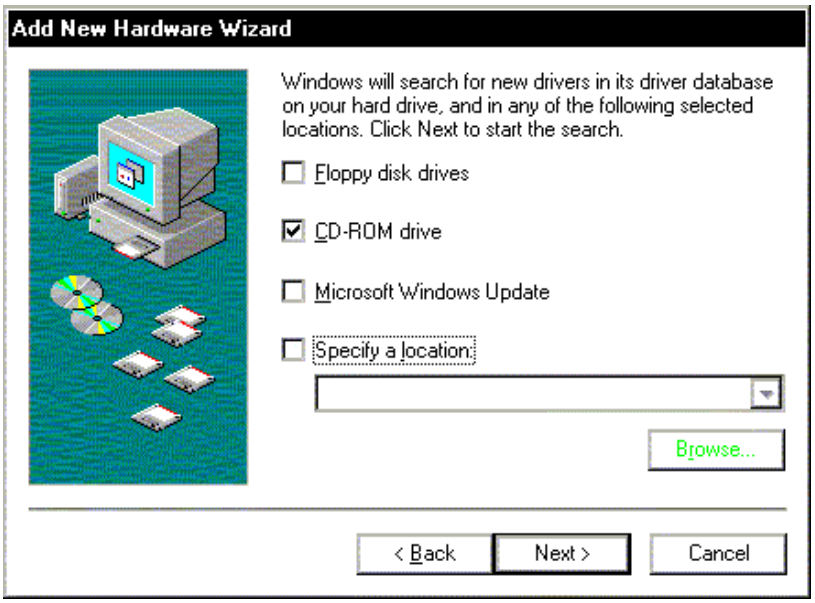
Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
Browse...
< Back
Next >
Cancel

Figure 7. Windows 98

4. **Windows 98:** Select option button **The updated driver (Recommended) Westell WireSpeed Dual Connect Modem.** See Figure 8. Click **Next**.

Note: If Figure 8 does not appear at this step, and Figure 9 appears with the text 'USB Composite device', 'C:\Windows\Inf\USB.Inf', do not continue. Click **Back** to Step 3 and specify the location of the Westell CD-ROM.

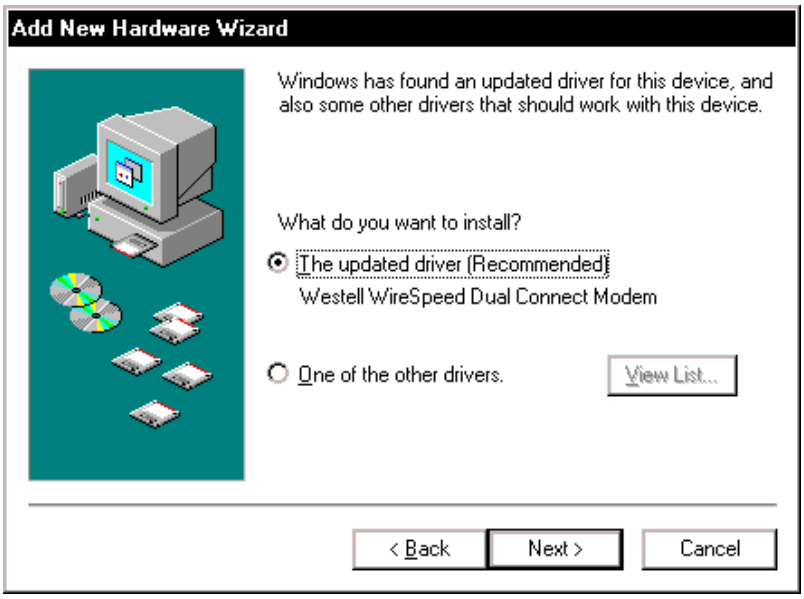
Add New Hardware Wizard
Windows has found an updated driver for this device, and also some other drivers that should work with this device.
What do you want to install?
The updated driver (Recommended)
Westell WireSpeed Dual Connect Modem
One of the other drivers.
View List...
< Back
Next >
Cancel

Figure 8. Location of Hardware Device Driver

5. **Windows 98:** Windows will display the location of the driver. See Figure 9. Click **Next**.
   Note: The drive "letter" may vary.

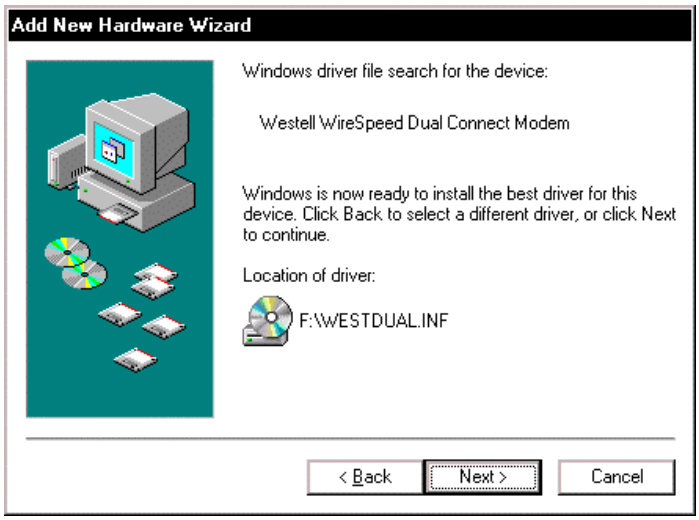
Add New Hardware Wizard
Windows driver file search for the device:
Westell WireSpeed Dual Connect Modem
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
F:\WESTDUAL.INF
< Back
Next >
Cancel

Figure 9. Loading Device Driver

6. **Windows 98**: Remove the Westell CD from the CD-ROM Drive. Next, insert the Windows operating system CD into the CD-ROM Drive. See Figure 10. Click **OK**.

Figure 10. Insert Windows Operating System CD

7. **Windows 98**: The system will begin copying files (Figure 11).

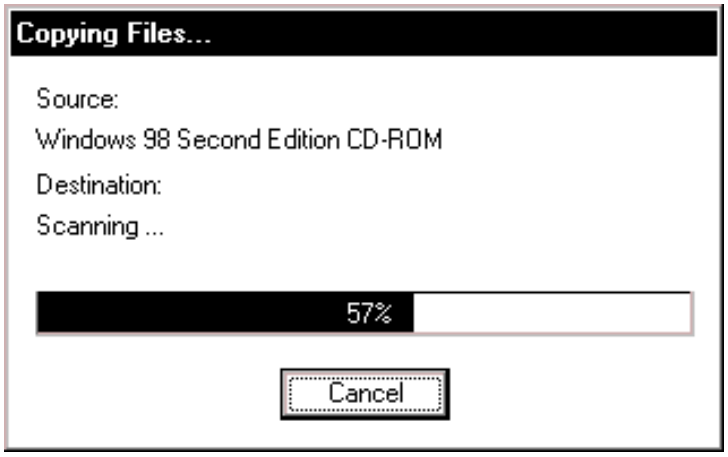

Figure 11. Copying Files

8. **Windows 98**: This window may or may not appear as some 'CAB' files are stored on hard disk (Figure 12).

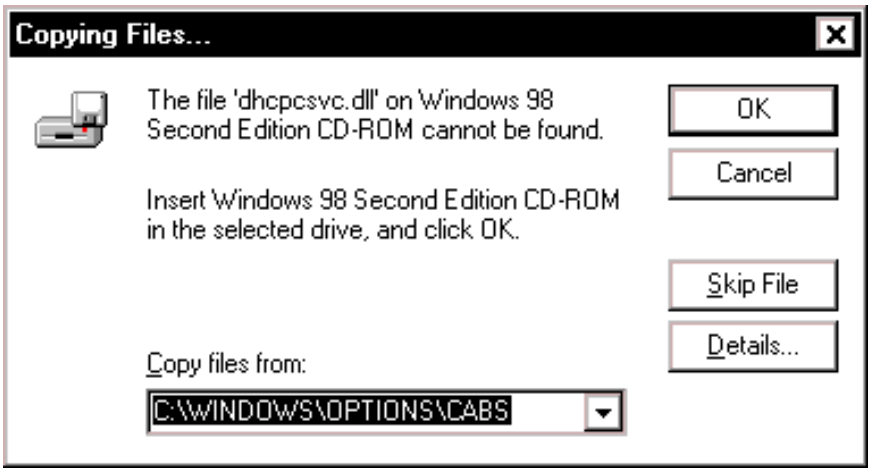
Copying Files...
The file 'dhcpcsvc.dll' on Windows 98 Second Edition CD-ROM cannot be found.
Insert Windows 98 Second Edition CD-ROM in the selected drive, and click OK.
Copy files from:
C:\WINDOWS\OPTIONS\CABS
OK
Cancel
Skip File
Details...

Figure 12. Windows 98

9. **Windows 98**: The window below confirms that the PC has finished loading the drivers (Figure 13). Click **Finish**.

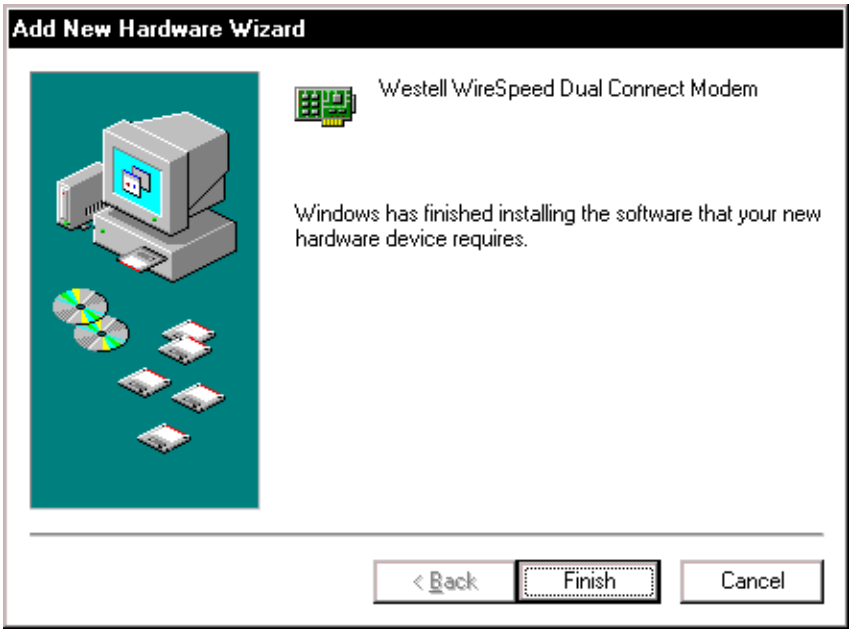
Add New Hardware Wizard
Westell WireSpeed Dual Connect Modem
Windows has finished installing the software that your new hardware device requires.
< Back
Finish
Cancel

Figure 13. Windows 98

10. **Windows 98**: Click **Yes** to restart your computer. See Figure 14.

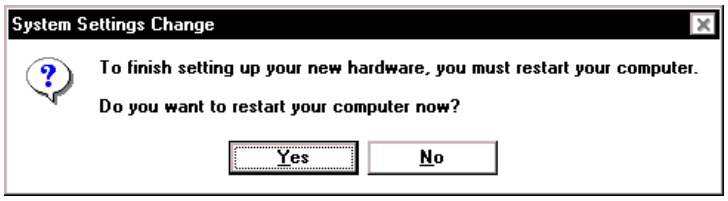
System Settings Change
To finish setting up your new hardware, you must restart your computer.
Do you want to restart your computer now?
Yes
No

Figure 14. Restart the Computer

After the computer has restarted, the modem is ready for use. Refer to the Internet Service Provider (ISP) installation manual to install the software required for your Internet connection.

6.3 Installing the USB Drivers for Windows 98ME

1. Windows 98ME: After you have connected the Dual Connect Modem to your PC, the Found New Hardware window appears (Figure 15). In a few moments, the Add New Hardware Wizard window appears (Figure 16). Click the option button for Automatic search for a better driver (Recommended). Click Next.

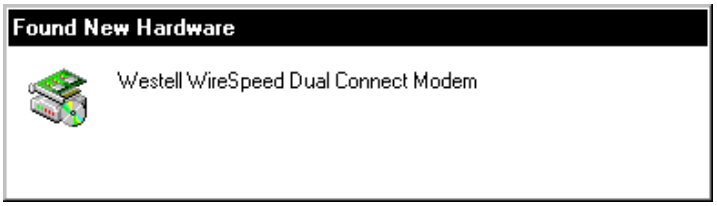

Figure 15. Windows 98ME

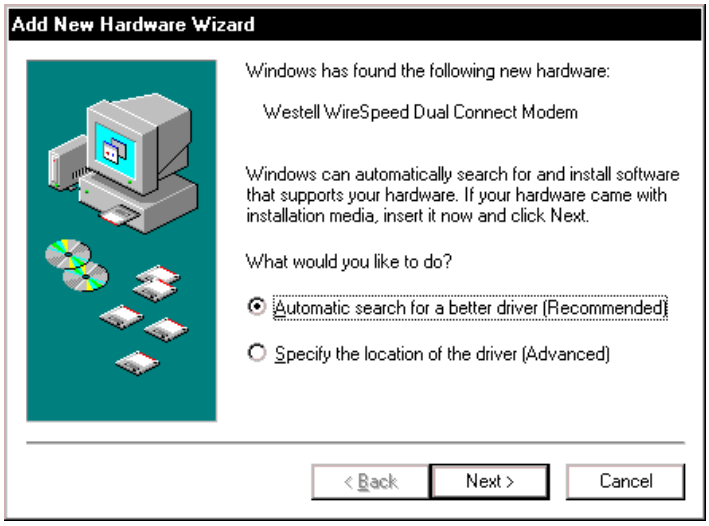
Add New Hardware Wizard
Windows has found the following new hardware:
Westell WireSpeed Dual Connect Modem
Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next.
What would you like to do?
Automatic search for a better driver (Recommended)
Specify the location of the driver (Advanced)
< Back
Next >
Cancel

Figure 16. Windows 98ME

2. **Windows 98ME**: Windows will display the location of the driver. See Figure 17.

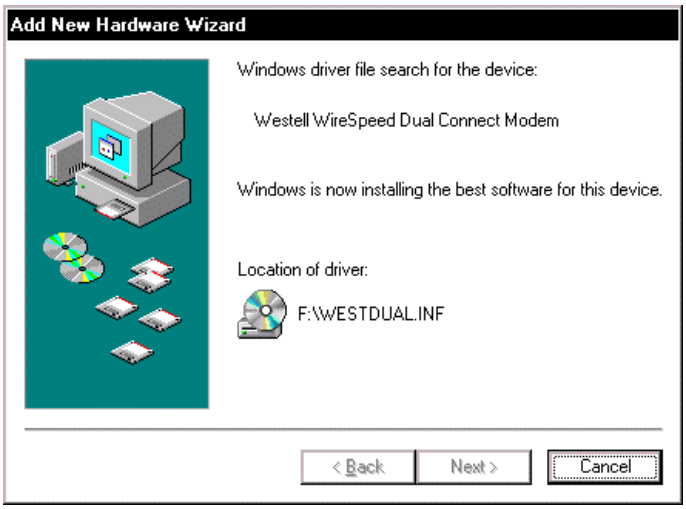
Add New Hardware Wizard
Windows driver file search for the device:
Westell WireSpeed Dual Connect Modem
Windows is now installing the best software for this device.
Location of driver:
F:\WESTDUAL.INF
< Back
Next >
Cancel

Figure 17. Location of Hardware Device Driver

3. **Windows 98ME**: The window below confirms that the PC has finished loading the drivers. See Figure 18. Click Finish.

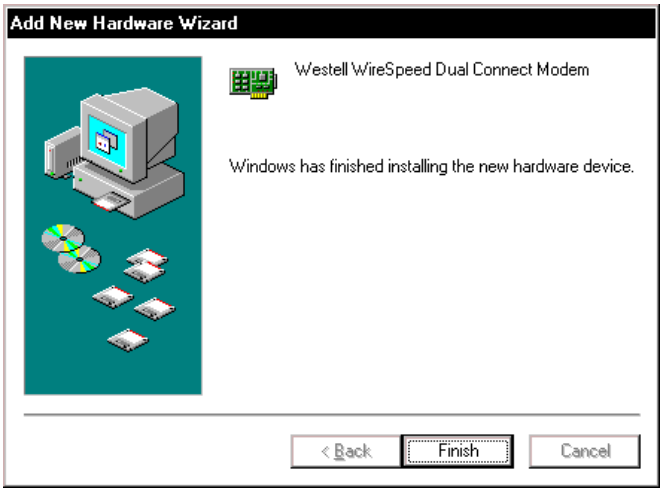

Figure 18. Found New Hardware

4. **Windows 98ME**: When the **System Settings Change** screen appears, the USB drivers are installed properly. See Figure 19. Click **Yes.**

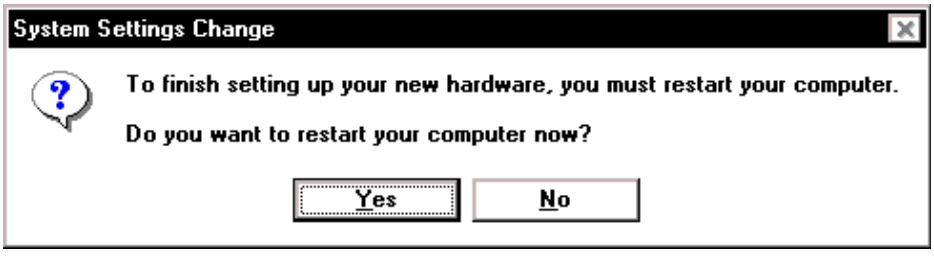
System Settings Change
To finish setting up your new hardware, you must restart your computer.
Do you want to restart your computer now?
Yes
No

Figure 19. Restart the Computer

After the computer has restarted, the modem is ready for use. Refer to the Internet Service Provider (ISP) installation manual to install the software required for your Internet connection.

6.4 Installing the USB Driver for Windows 2000

1. After you have connected the Westell Dual Connect Modem to your PC, the **Found New Hardware** window appears (Figure 20). In a few moments, the **Found New Hardware Wizard** window appears (Figure 21). Click **Next**.

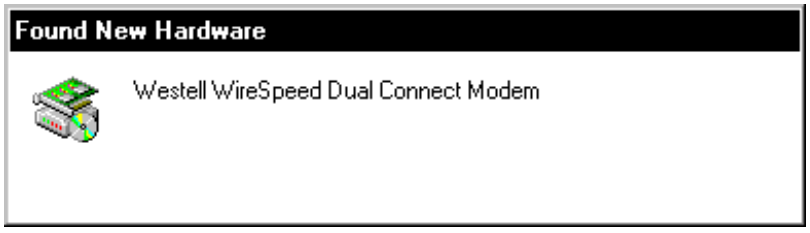

Figure 20. Found New Hardware

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install a device driver for a hardware device.
To continue, click Next.
< Back
Next >
Cancel

Figure 21. Welcome to Install Device Driver

2. **Windows 2000:** The **Install Hardware Device Drivers** window appears. Select **Search for a suitable driver for my device (recommended)** See Figure 22. Click **Next**.

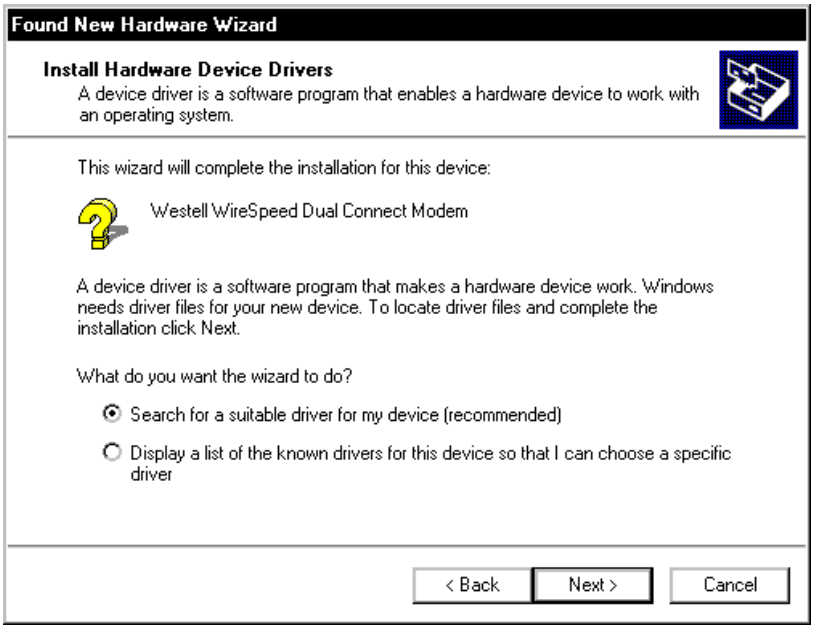
Found New Hardware Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
Westell WireSpeed Dual Connect Modem
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel

Figure 22. Search for Device Driver

3. **Windows 2000:** The **Driver Files Search Results** window appears. Select the **CD-ROM drives** option See Figure 23). Click **Next**.

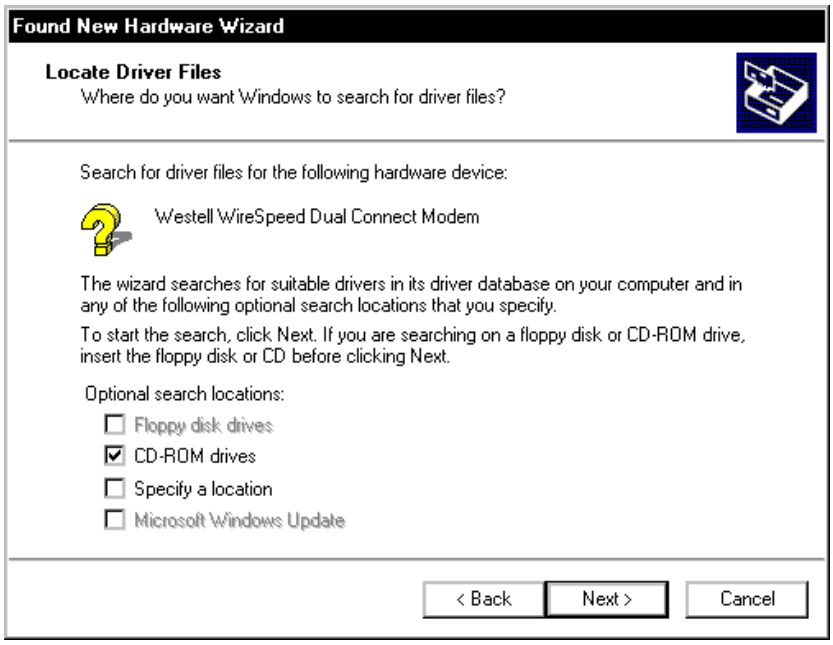
Found New Hardware Wizard
Locate Driver Files
Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
Westell WireSpeed Dual Connect Modem
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back
Next >
Cancel

Figure 23. Locate Driver Files

4. **Windows 2000:** The **Driver Files Search Results** window appears (Figure 24). Click **Next**.
   Note: The drive "letter" may vary.

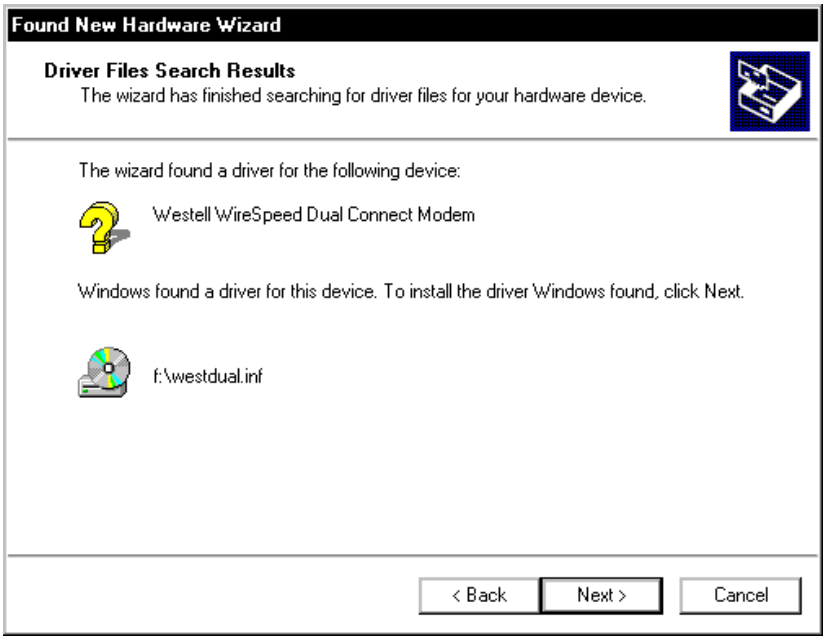
Found New Hardware Wizard
Driver Files Search Results
The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
Westell WireSpeed Dual Connect Modem
Windows found a driver for this device. To install the driver Windows found, click Next.
f:\westdual.inf
< Back
Next >
Cancel

Figure 24. Driver Files Search Results

5. **Windows 2000:** The window below confirms that the PC has finished loading the drivers (Figure 25). Click **Finish**.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
Westell WireSpeed Dual Connect Modem
Windows has finished installing the software for this device.
To close this wizard, click Finish.
< Back
Finish
Cancel

Figure 25. Drivers Loaded

6. **Windows 2000**: When the **System Settings Change** screen appears, the USB drivers are installed properly. See Figure 26. Click **Yes.**

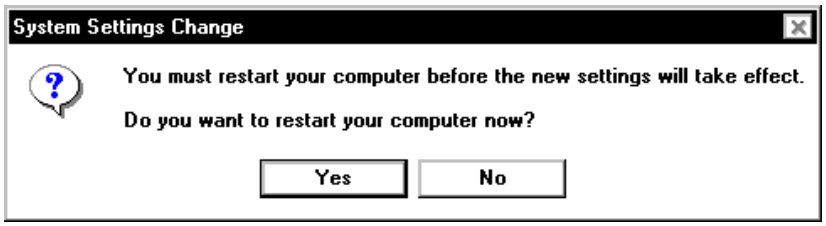
System Settings Change
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

Figure 26. Restart Your Computer

After your computer has restarted, the modem is ready for use. Refer to the Internet Service Provider (ISP) installation manual to install the software required for your Internet connection.

6.5 Installing the USB Driver for Windows XP

1. After you have connected the Westell Dual Connect Modem to your PC, the **Found New Hardware Wizard** window will open. See Figure 27. Select option button **Install the software automatically (Recommended)**. Click **Next**.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Westell WireSpeed Dual Connect Modem
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Figure 27. Windows XP

2. **Windows XP**: The window below confirms that the PC has finished loading the drivers (Figure 28). Click **Finish**.

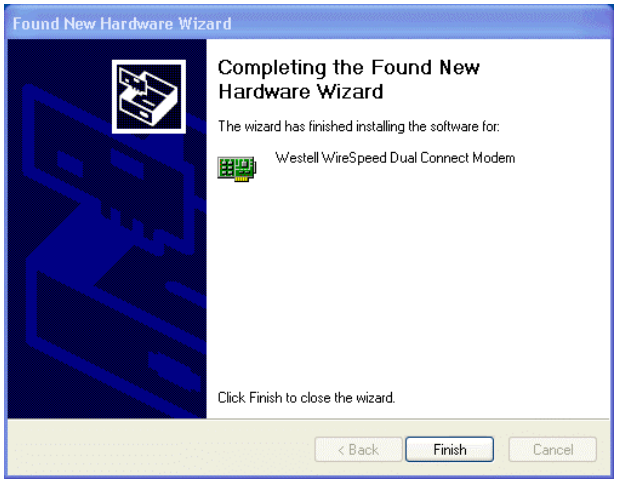
Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
Westell WireSpeed Dual Connect Modem
Click Finish to close the wizard.
< Back
Finish
Cancel

Figure 28. Windows XP

The modem is now ready for use. Refer to the Internet Service Provider (ISP) installation manual to install the software required for your Internet connection.

7. INSTALLING DIAGNOSTIC SOFTWARE for WINDOWS

Note: Your Service Provider may require that you install the diagnostic software for technical support. However, the software is not required to operate your modem. Diagnostic software installation is optional.

The diagnostic software should be used as directed by your service provider to troubleshoot problems with your DSL service.

1. Begin the diagnostic software installation. On the installation CD run:
   D:\Diagnostic Icon\Setup.exe

Where "D:\" is the drive letter of your CD-ROM.

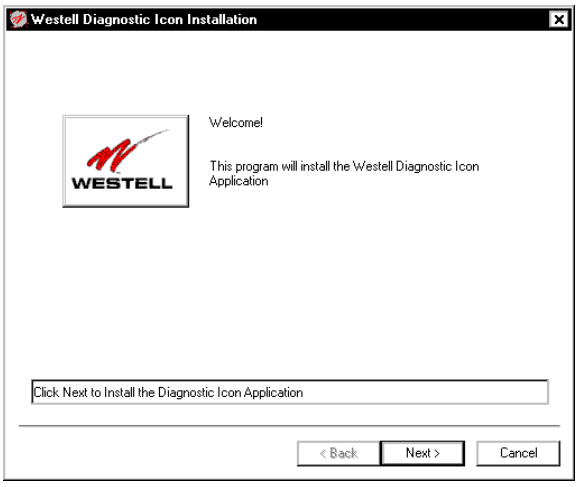
Westell Diagnostic Icon Installation
WESTELL
Welcome!
This program will install the Westell Diagnostic Icon Application
Click Next to Install the Diagnostic Icon Application
< Back
Next >
Cancel

Figure 29. Welcome to Diagnostic Software Installation

2. Choose a directory to install the application (Figure 30). Click **Next** to accept the default directory or to browse to another location.

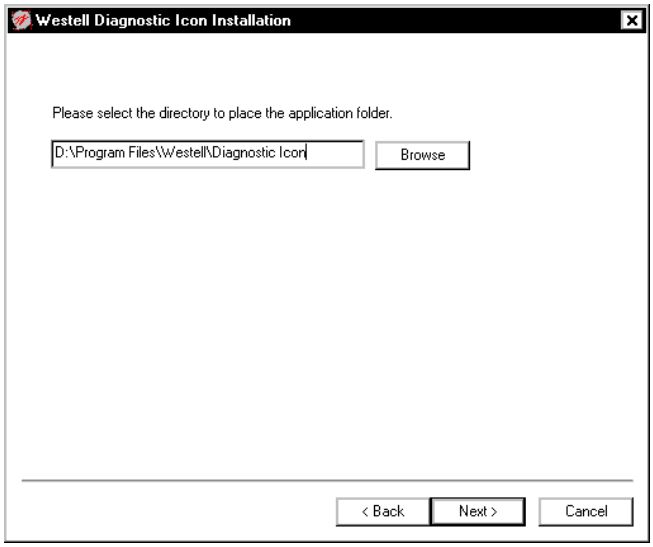

Figure 30. Select Directory for a Diagnostic Software Installation

3. The **Modem Detect** screen appears. Click **Next**. See Figure 31.

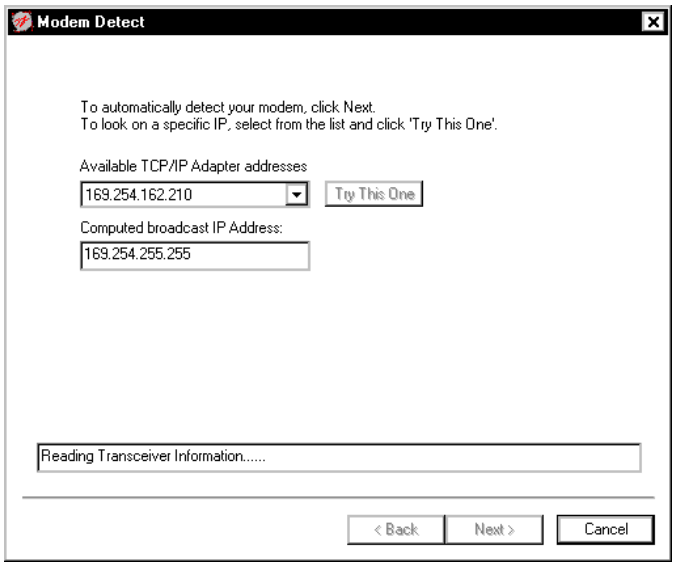
Modem Detect
To automatically detect your modem, click Next.
To look on a specific IP, select from the list and click 'Try This One'.
Available TCP/IP Adapter addresses
169.254.162.210
Try This One
Computed broadcast IP Address:
169.254.255.255
Reading Transceiver Information.....
< Back
Next >
Cancel

Figure 31. Modem Detect

4. When the diagnostic software has finished loading, the **Setup Complete** screen appears. Select **Run application now**. Click **Done** (Figure 32). An icon for the diagnostic features will be placed in your taskbar.

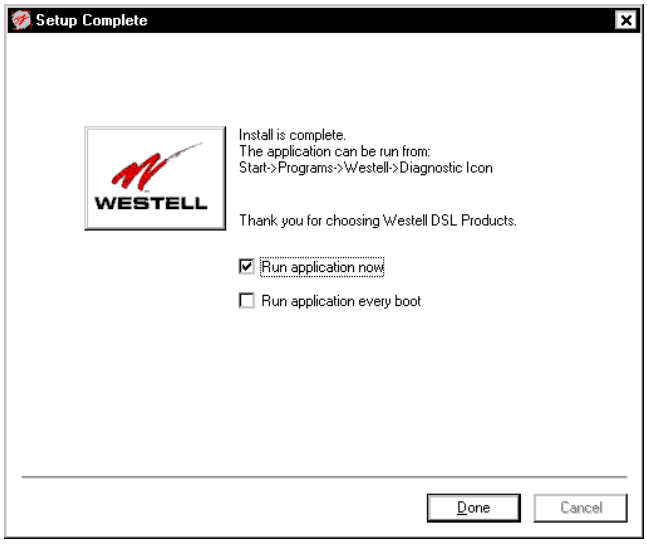

Figure 32. Setup Complete

The diagnostic software can affect key settings of your communications software, and should only be run when instructed by your service provider. For additional details on the diagnostic functions, see the Diagnostic Icon Information Panels.

Your modem software installation is complete. Follow the instructions provided by your service provider to configure your Westell Modem and browser settings.

If your computer already has an Ethernet adapter or NIC installed, you may have to disable the adapter or set a static IP address in the PC for the modem. Contact your service provider for more details.

7.1 Diagnostic Icon Information Panels

From the **Start Menu**, select **Programs** > **Westell** > **Diagnostic Icon**. The **Administration Diagnostic Panel** opens. See Figure 33.

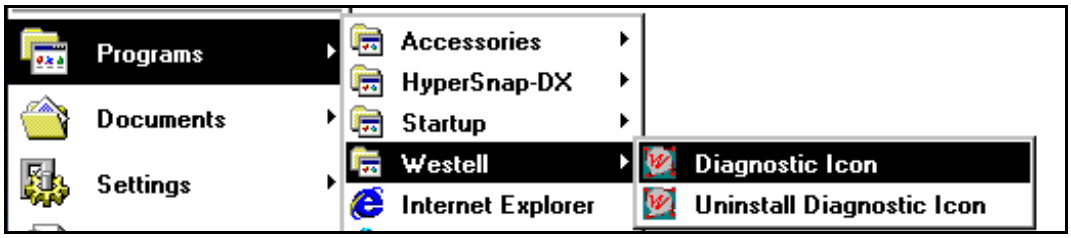

Figure 33. Start Menu

Note: When the diagnostic application begins, the system places the following icon in the taskbar. See Figure 34.

Figure 34. DSL Not Connected

7.2 The Administration Panel

The Administration panel displays information on the modem hardware model and software versions. See Figure 35.

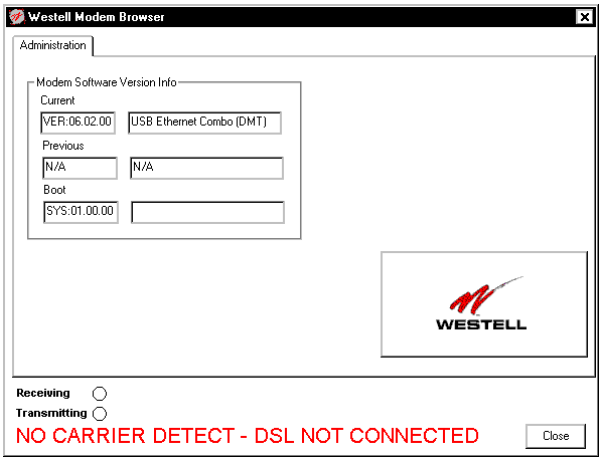

Figure 35. Administration Diagnostic Panel

To display the **Menu** screen, right click on the **Administration Diagnostic Panel**. The **Menu** screen appears (Figure 36). Choose one of the following options from the **Menu** screen.

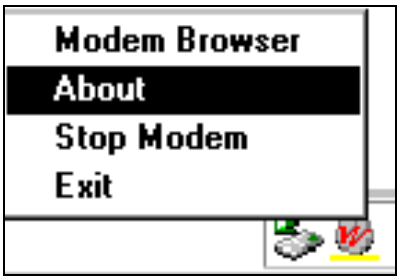

Figure 36. Menu screen

Modem Browser-This option brings up the **Administration Diagnostic Panel** if it is has not already been accessed.
About-This option displays a screen containing the software version and the copyright date. See Figure 37.

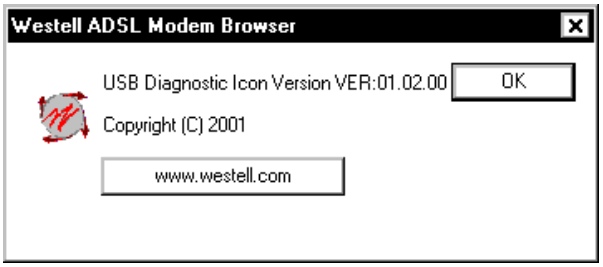

Figure 37. USB Diagnostic Icon Version

Stop Modem-This option instructs the modem to stop transmitting diagnostic data.
Exit-This option terminates the application.

8. UNINSTALLING DIAGNOSTIC SOFTWARE FOR WINDOWS

1. From the **Start Menu**, select **Programs** > **Westell** > **Uninstall Diagnostic Icon**. The **Uninstall Westell Diagnostic Icon** appears (**Figure 38**). Click **Next**.

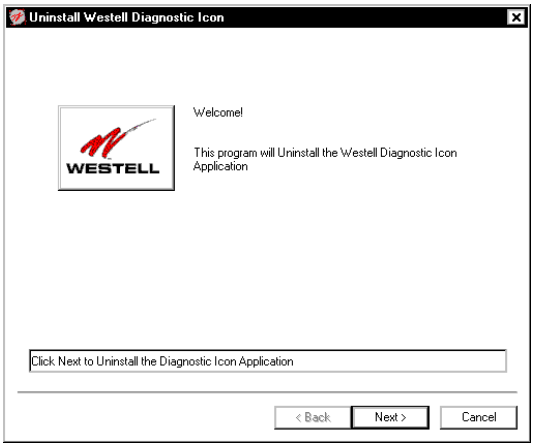
Uninstall Westell Diagnostic Icon
WESTELL
Welcome!
This program will Uninstall the Westell Diagnostic Icon Application
Click Next to Uninstall the Diagnostic Icon Application
< Back
Next >
Cancel

Figure 38. Welcome to Uninstall Diagnostic Application

2. The **Confirmation** window appears (**Figure 39**). Click **Yes** to confirm that you want to uninstall the diagnostic icon application.

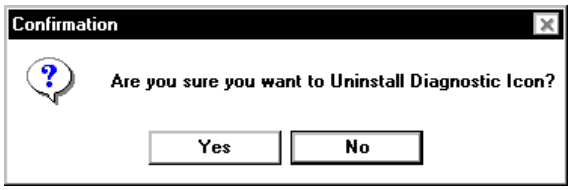

Figure 39. **Confirm Uninstall**

3. When the system is finished uninstalling the diagnostic icon application, the **Uninstall Complete** window appears (Figure 40). Click **Done**.

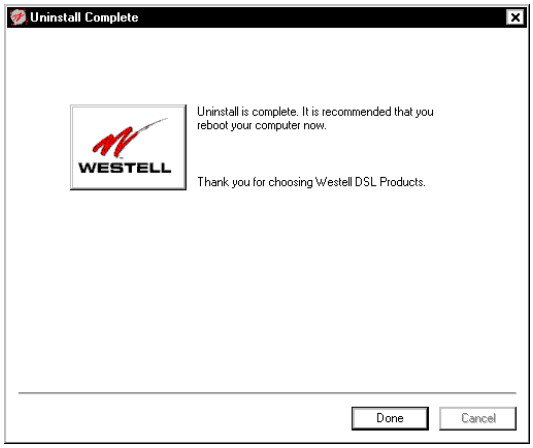
Uninstall Complete
WESTELL
Uninstall is complete. It is recommended that you reboot your computer now.
Thank you for choosing Westell DSL Products.
Done
Cancel

Figure 40. Uninstall Complete

9. TECHNICAL SUPPORT INFORMATION

9.1 Westell Technical Support

If technical assistance is required, contact Westell by using one of the following options:

Phone: 1-630-375-4500
email: global_support@westell.com

Visit Westell at www.westell.com to obtain additional information, view frequently asked questions, and enter on-line service requests.

10. WARRANTY AND REPAIRS

Warranty

Westell warrants this product to be free from defects at the time of shipment. Westell also warrants this product to be fully functional for the time period specified by the terms of the warranty. Any attempt to repair or modify the equipment by anyone other than an authorized Westell representative will void the warranty.

Repairs

Westell will repair any defective Westell equipment without cost during the warranty period if the unit is defective for any reason other than abuse, improper use, or improper installation, or acts of nature. Before returning the defective equipment, request a **Return Material Authorization (RMA)** number from Westell. Once an RMA number is obtained, return the defective unit, freight prepaid, along with a brief description of the problem to:

Westell, Inc.
ATTN: R.G.M Department
750 N. Commons Drive
Aurora, IL 60504-7940

Westell will continue to repair faulty equipment beyond the warranty period for a nominal charge. Contact a Westell Technical Support Representative for details.

11. PRODUCT SPECIFICATIONS

ADSL

- DSL Line Code: Discrete Multi-Tone (DMT)
- DSL Rates: 32 kbps to 8 Mbps downstream and 32 kbps to 800 Kbps upstream
- Power spectral density: -40 dBm/Hz
- DSL Impedance: 100 Ohms
- DSL Performance: Performance: per G.992.1, ANSI T1.413.

Protocol Features

- Bridge Encapsulation per RFC1483
- Logical Link Control/ Subnetwork Access Protocol (LLC/SNAP)
- Software Upgradeable
- PPPoE Support
- ATM SAR: Internal to Modem

System Requirements for USB

- Pentium Class PC or above
- Microsoft® Windows® 98, 2000, ME, or XP installed
- Operating system CD
- Internet Explorer 4.x or Netscape Navigator 4.x or higher
- 32 MB RAM
- 10 MB of free hard drive space
- USB Version 1.0 or 1.1 compliant bus

System Requirements for 10/100 Base-T/Ethernet

- Pentium® Class PC or above
- Microsoft® Windows® 95, 98, 2000, ME, NT 4.0, or XP installed
- Operating system CD
- 32 MB RAM
- Ethernet 10/100 Base-T interface
- 10 MB of free hard drive space
- TCP/IP Protocol installed

Dimensions

- Width: 6.3 in. (16.0 cm)
- Depth: 5.07 in. (12.8 cm)
- Height: 1.6 in. (4.0 cm)

Weight

- Approx. 2.0 lbs. (.90 kg)

Environmental

- Ambient Operating Temperature: +32 to +104°F (0 to +40°C)
- Relative Humidity: 5 to 95%, non-condensing

Power Supply

- 120 VAC to 12 VAC wall-mount power supply

Power Consumption

- Less than 8 watts typical, from 120 VAC

Connectors

- Power connector
- DSL/LINE: 6-pin modular jack
- PC: USB Series B connector
- Ethernet: 8-pin RJ-45 connector

EMC Compliance

- FCC, Part 15 Class B

Safety

- UL 1950, 3rd Edition
- cUL, CAN/CSA-22.2 950-93

Regulatory Approval

- UL
- CSA
- FCC, Part 68
- Industry Canada CS03

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8. Costs of Litigation. If any action is brought by either party to this License Agreement against the other party regarding the subject matter hereof, the prevailing party shall be entitled to recover, in addition to any other relief granted, reasonable attorney fees and expenses of litigation.

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13. PUBLICATION INFORMATION

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